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TCS-7045-60

Copy 1 of 5

1 MAR 1960

MEMORANDUM FOR: Record

SUBJECT : Operational Report of Mission 1543,
System IV.

1. We might start with a few general comments pertaining to this mission involving System IV. The first suggestion is that the tapes be forwarded with sides mounted on the reels. The absence of sides on the reels creates a delay while sides are located and mounted before any work at all can be done by us on a System IV mission.

2. The scope camera clicks are still noticeable, particularly at the beginning of this mission. They could be heard in Receivers 1A through 4, but were most noticeable in Receivers 1A through 3.

3. The failure to include with this tape the Postflight Debriefing Form for this mission also makes any other readout practically impossible since this sheet includes System IV start and stop times and this data is found nowhere else in the data accompanying the tape for this mission.

4. The following is a brief resume by receivers for this mission:

Receiver 1A - Signals were noted at the beginning of the mission. The noise level did not seem too bad. Signals were also noted at the end. Operation was satisfactory.

Receiver 1B - This receiver was noisier than 1A. Signals were noted at several places. A tone of approximately 830 cps was present at various times. This appears to be from an internal source. Except for noise, operation was satisfactory.

Receiver 2 - This receiver still is plagued with its old noise problems. In addition to its previous habit of producing loud random noise, it is still showing signs of strong internal-type noises of 400, 800, and 1200 cps tones. No signals were noted except for the feed-through near the end of a signal normally found in Receiver 1A.

Receiver 3 - This receiver was quiet. Signals were noted and operation was satisfactory.

Receiver 4 - There were signals noted at the beginning and the end of the mission on this receiver. Little noise was noted and operation can be considered as satisfactory.

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Receiver 5 - Noise level was satisfactory. Signals were noted at various places over the entire mission. Operation was satisfactory.

Receiver 6 - Only one signal was noted. However, because of the frequency coverage of this receiver, signals generally are not too abundant. Noise was low and operation was satisfactory.

Receiver 7 - Signals were noted at various times along the route. Noise level was satisfactory except for occasional periods of popping noise or possible oscillation. Also, when the receiver locked on noise at the bottom of its frequency range, 400 cps was strong. Otherwise the 400 cps was not noticed and operation was satisfactory with the exception of the intermittent noise mentioned above.

Receivers 8, 9, and 10 - Over the entire length of the mission a tone was noted of 690 cps occurring every 1.2 seconds and lasting for .6 seconds. Since the strength did not vary over the entire mission, it is felt that this is probably from some internal source and it is not a true signal or that it is originating from some other piece of equipment on the aircraft.

Receivers FM1 and FM2 - Operation was apparently satisfactory. Signals were present.

5. The nixie readout generally seemed to perform satisfactorily on all receivers although at times the nixies did appear slightly erratic. An increase in the recording level might help this situation.

6. Preflight tests were satisfactory. It might be suggested that all three of the calibration points listed on the preflight data sheets be utilized for each receiver instead of the two used on this mission. This would definitely establish the calibration curve for each receiver.

7. With all of the above noted exceptions, the over-all performance of this mission can be considered as satisfactory from an operational standpoint.

25X1A



Chief, ELINT Branch, ED/SI

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Receiver 1B - This receiver was noisier than 1A. Signals were noted at several places. A tone of approximately 830 cps was present at various times. This appears to be from an internal source. Except for noise, operation was satisfactory.

Receiver 2 - This receiver still is plagued with its old noise problems. In addition to its previous habit of producing loud random noise, it is still showing signs of strong internal-type noises of 400, 800, and 1200 cps tones. No signals were noted except for the feed-through near the end of a signal normally found in Receiver 1A.

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/s/
[Redacted]
Chief, ELINT Branch, ED/SI

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